

**REMARKS**

**I. Status of Claims**

Reconsideration and allowance of the claims pending in the application are requested.

Claims 1-55 are pending in the application.

Claims 52-55 have been withdrawn from consideration, based on the Restriction requirement set by the Examiner.

Claims 1-51 have been rejected under 35 USC 102(b) as being anticipated by US U.S. Patent Publication 2001/0007815 to Philipsson, published July 12, 2001. filed December 15, 2000 (hereafter, "Philipsson").

Claims 9-15 and 20-51 have been canceled without prejudice for subsequent prosecution, if deemed appropriate.

New Claims 56 - 71 have been added for further protection of the disclosed subject matter.

**II. Response to Rejection Under 35 USC 102(b):**

Applicants respond to the indicated Paragraphs of the subject Office Action, as follows:  
Paragraphs 2/3:

1. Claims 1 and 20 include features not disclosed in Philipsson at cited Paragraphs and overcomes the rejection under 35 USC 102 (b), as follows:

a) "generating a RF-ID interrogation signal by a first terminal equipped with a RF-ID tag reader device;"

The Examiner contends the ABSTRACT in Philipsson discloses the claimed feature. Applicants can find no disclosure nor has the Examiner identified any text in the ABSTRACT which supports the rejection of feature a). Moreover, Philipsson at Paragraph 0019, discloses a mobile pay terminal including a passive radio frequency transponder responds to an interrogation signal from a stationary sale terminal. The pay terminal does not include a tag reader device, and does not generate an interrogation signal. In contrast, Applicants at page 26, line 21 continuing to page 27, line 6, disclose a mobile terminal including a RF-ID tag reader device, which supports an active communication mode, and generates and sends an interrogation signal to an access

point including a RF-ID tag device. Philipsson fails to disclose a first terminal equipped with a RF-ID tag reader device which generates an interrogation signal.

c) “notifying a processor in the second terminal of the presence of the RF-ID interrogation signal for setting a short-range communication module in the second terminal into a predefined operation mode for being capable of detecting paging signals directed to the second terminal;”

The Examiner contends Paragraph 0022 in Philipsson discloses the claimed feature. Paragraphs 0022 and 0025 disclose the second or sale terminal receives a respond signal from the first or pay terminal providing a unique identification number of the first terminal and establishes a connection to the first or pay terminal, via a short range radio link. In contrast, applicants at page 15, lines 18 -22 disclose “the access point (second terminal) now has enough information about the (first) terminal 102 to skip the usual Bluetooth inquiry stage in establishing a Bluetooth connection, and can proceed directly to the Bluetooth paging stage. A Bluetooth paging operation is initiated by the access node 104 using the Bluetooth serial number of the terminal 102 received from the RF-ID reader and possibly the Clock Offset value of the terminal 102.” Philipsson fails to disclose setting the second terminal into a predefined operation mode for detecting paging signal. In particular, there are no hints or suggestions in Paragraphs 0022 and 0025 that the terminal would be able to wake up or alert the short-range communication module to enter into a suitable state for enhancing connection set-up. A good figure explaining this aspect can be found on FIG.9A of the currently pending application.

d) “responding to the RF-ID interrogation signal by transmitting a RF-ID response signal to the first terminal including identification information relating to the short-range communication module of the second terminal;”

The Examiner contends Paragraphs 0020 and 0022 disclose the claimed feature. Paragraphs 0020 and 0022 describe the transponder contained in the first terminal providing the second terminal an identification number. Paragraph 0023 discloses the second terminal establishes a short-range connection with the first terminal in response to the identification number. In contrast, applicants at page 16, lines 8 -23, disclose the second terminal sends the first terminal identification information relating to the short-range communication module of the

second terminal. Philipsson fails to disclose the second terminal sending the first terminal identification information relating to a short-range communication module of the second terminal.

e) “processing the received RF-ID response signal by the first terminal to activate a short-range communication module in the first terminal to initiate a shortened session setup by transmitting a short-range paging signal directed to the second terminal based on information of the received RF-ID response signal to establish a short-range connection with the second terminal; and”

The Examiner contends Paragraph 0025 discloses the claimed feature. Paragraph 0025 discloses a second terminal in response to the identification number for the first terminal establishes a connection with the first terminal, via a short-range radio link. In contrast, applicants at page 15, lines 15-23, disclose the first terminal responds to a paging message from the second terminal and forms a short-range synchronous connection link with the second terminal in a shortened session setup. Philipsson fails to disclose the first terminal forming a short-range connection with the second terminal in a shortened session setup.

f) “detecting the paging signal by the short-range communication module in the second terminal for immediate establishment of a short-range connection between the first and second terminals.”

The Examiner contends Paragraph 0025 discloses the claimed feature. Paragraph 0025 discloses the first terminal sends the second terminal an identification number used by the second terminal in setting up a short-range connection. In contrast, applicants disclose at page 16, lines 8-16, the second terminal sends the first terminal a paging signal (not an identification number) and detects a response for establishing connection between the first and the second terminal. Philipsson fails to disclose a second terminal detecting a response signal from a first terminal to immediately establish a connection between the first and second terminals.

Summarizing, Philipsson fails to disclose (i) a first terminal including a RF-ID tag reader device and a first communication module; (ii) the first terminal sending an interrogation signal to a second terminal; (iii) the second terminal including a second communication module responding to the interrogation signal; setting the second communication module into a

predefined operation mode and sending the first terminal a response signal including information related to the second communication module, and (iv) the first terminal responding to the response signal to activate the first communication module and transmit a paging signal to the second terminal; and the second terminal responding to the paging signal to establish an immediate short-range connection between the first terminal and the second terminal. Claims 1 and 20 are without support in Philipsson. Withdrawal of the rejection of claims 1 and 20 under 35 102 (b) and allowance thereof are requested.

2. Claim 2:

The Examiner contends that Paragraph 0025 in Philipsson discloses the subject matter of claim 2. Applicants can find no disclosure in Paragraph 0025, nor has the Examiner identified any text in Paragraph 0025 relating to a RF-ID tag reader, having tag functionality and terminal identification information, as described in the subject application at page 22, lines 3-16.

Philipsson fails to disclose the subject matter of claim 2.

3. Claim 3:

The Examiner contends that Paragraph 0028 in Philipsson discloses the subject matter of claim 3. Paragraph 0028 discloses embodiments of passive transponders. Applicants can find no disclosure in Paragraph 0028, nor has the Examiner identified any text in Paragraph 0028, where a RF-ID tag reader is switched from a tag reader state to a tag state, as described in the subject application at page 28, lines 9-22. Philipsson fails to disclose the subject matter of claim 3.

4. Claim 4:

The Examiner contends that Paragraph 0022 in Philipsson discloses the subject matter of claim 4. Paragraph 0022 describes the second or active terminal establishes a connection with the first or passive terminal. Applicants can find no disclosure in Paragraph 0022, where the first and second terminals include RF-ID tag readers which may operate in an active mode. Philipsson fails to disclose the subject matter of claim 4.

5. Claims 5 and 6:

The Examiner contends that Paragraph 0028 in Philipsson discloses the subject matter of claim 5 and 24. Paragraph 0028 discloses embodiments of passive transponders. Applicants can find no disclosure in Paragraph 0028 nor has the Examiner identified any text in Paragraph 0028 relating to the second or sale terminal wherein RF-ID tag readers operate in a powered down state and passive mode, as described in the application at page 39, lines 1-10. Philipsson fails to disclose the subject matter of claims 5 and 6.

6. Claim 7:

Claim 7 depends from claim 1 and is patentable over Philipsson on the same basis as claim 1.

7. Claim 8:

The Examiner contends that Paragraph 0016 in Philipsson discloses the subject matter of claim 8. Paragraph 0016 discloses a Bluetooth link is established between a first or pay terminal and a second or sale terminal. Applicants can find no disclosure in Paragraph 0016, nor has the Examiner identified any text in Paragraph 0016, wherein, the second terminal informs the Bluetooth module to enter into a page scan mode to provide a shortened device discovery and session setup with a first terminal. Philipsson fails to disclose the subject matter of claim 8.

9. Claim 16:

The Examiner contends Paragraph 0027 in Philipsson discloses the claimed feature. Paragraph 0027 discloses the first terminal may be a mobile communication device, whereas, the second terminal maybe another kind of stationary unit. In contrast, applicants disclose both the first and second devices may be mobile devices as shown and described in Figure 9. Philipsson fails to disclose the subject matter of claim 16.

10. Claim 17:

The Examiner contends Paragraph 0005 in Philipsson discloses the claimed feature. Paragraph 0005 discloses establishing a short-range radio link between stationary unit and a

mobile communication device for transactions in a wireless network. Applicant can find no disclosure in Paragraph 005, nor has the Examiner identified any text in Paragraph 0005, for determining the acceptability of a short-range connection, as described in the application at page 9, lines 3-7. Philipsson fails to disclose the subject matter of claim 17.

11. Claim 18:

The Examiner contends Paragraph 0016 in Philipsson discloses the claimed feature. Paragraph 0016 discloses the establishment of a first short range radio link between a first or pay terminal and a second or sale terminal. Applicants can find no disclosure in Paragraph 0016 relating to entering into a page scanning mode, if a Bluetooth mode is acceptable, as described in the subject application at page 9, lines 5-8. Philipsson fails to disclose the subject matter of claim 18.

12. Claim 19:

The Examiner contends Paragraph 0028 in Philipsson discloses the claimed feature. Paragraph 0028 discloses passive transponders for incorporation into the first terminal. Applicants can find no disclosure in Paragraph 0028, nor has the Examiner identified any text in Paragraph 0028, relating to a first terminal entering into a non-connectable mode if a Bluetooth mode is not acceptable, as described in the subject application at page 9, lines 4-5. Philipsson fails to disclose the subject matter of claim 19.

**III. Patentability Support for New Claims 56 – 71:**

Claim 56- 71 describe features of the second terminal including a wireless short-range communication module instructed to enter into a predefined operation mode capable of detecting paging signals from a first terminal. The cited art fails to disclose a sale terminal instructing a short range communication module to enter into a predefined operation mode to receive paging signals. Entry of claims 56-71 and allowance thereof are requested.

**CONCLUSION**

Applicants have distinguished the cited art from the claimed subject matter and supported the patentability of New Claims 56-71. Entry of the amendment, allowance of the pending claims and passage to issue of the application are requested.

**AUTHORIZATION**

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. 13-4500, Order No. 4047US1. A DUPLICATE OF THIS SHEET IS ATTACHED.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. 13-4500, Order No. 4208-4047US1. A DUPLICATE OF THIS SHEET IS ATTACHED.

Respectfully submitted,  
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Dated: October 23, 2006

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